



PATENT
514413-3525

IN THE UNITED STATES PATENT AND TRADEMARK

Applicant : Streber et al.
Serial No. : 07/322,604
Filed : March 10, 1989
Title : MICROORGANISMS AND PLASMIDS FOR
2,4-DICHLOROPHENOXYACETIC ACID
(2,4-D) MOXYGENASE FORMATION AND
PROCESS FOR THE PRODUCTION OF THESE
PLASMIDS AND STRAINS
Group Art Unit : 1646
Examiner : John Ulm

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Date of Deposit: May 24, 2000

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to: Assistant Commissioner for Patents, Washington, DC 20231.

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Assistant Commissioner for Patents
Washington, D.C. 20231
Attn: Box Issue Fee

**COMMUNICATION FORWARDING FORMAL DRAWINGS
AND PETITION TO ACCEPT PHOTOGRAPHS UNDER 37 C.F.R. 1.84(b)**

Sir:

Applicants submit this document in response to the Notice of Allowability mailed May 11, 2000, calling for formal drawings and in response to the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached to Paper No. 7.

Applicants enclose 17 sheets of new formal drawings (Figures 1 to 14) which have been prepared in accordance with the requirements of the Notice of Draftsperson's Patent Drawing Review, PTO-948, and the Notice of Allowability.

Figures 12a, 12b, 14a and 14b are black and white photographs and are submitted as photographs because they are otherwise incapable of being accurately or adequately depicted by ink drawings. Each of these photographs are submitted in triplicate and are properly mounted on photographic double weight paper. The original photographs mounted on bristol board paper were submitted in related application Serial No. 08/470,588. The formal drawings for application 08/470,588 and the present application are identical. If necessary, Applicants respectfully request that the Patent Office access the bristol board photographs from application Serial No. 08/470,588.

Pursuant to the provisions of 37 CFR 1.84(b), Applicants hereby petition the Commissioner to accept these photographs as formal drawings. Any requisite fee for this Petition, including the fee under 37 CFR §1.17(h), may be charged to Deposit Account No. 50-0320.

Applicant's draftsman prepared formal drawings (ink drawings) for figures 8 and 9. Therefore, no petition for the acceptance of photographs for these figures is believed to be required.

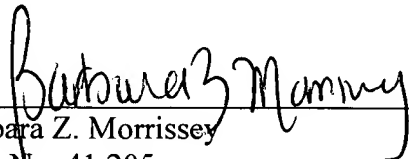
It is submitted that these formal drawings (Figures 1 to 14) fully comply with 37 C.F.R. 1.84 and 1.152 and should now be acceptable.

If any fee is determined to be due for entry and consideration of these formal drawings, the Commissioner is hereby authorized to charge any fee or credit any overpayment to Deposit Account No. 50-0320.

Consideration and entry of the enclosed formal drawings into the file of this
application are respectfully requested.

Respectfully submitted,

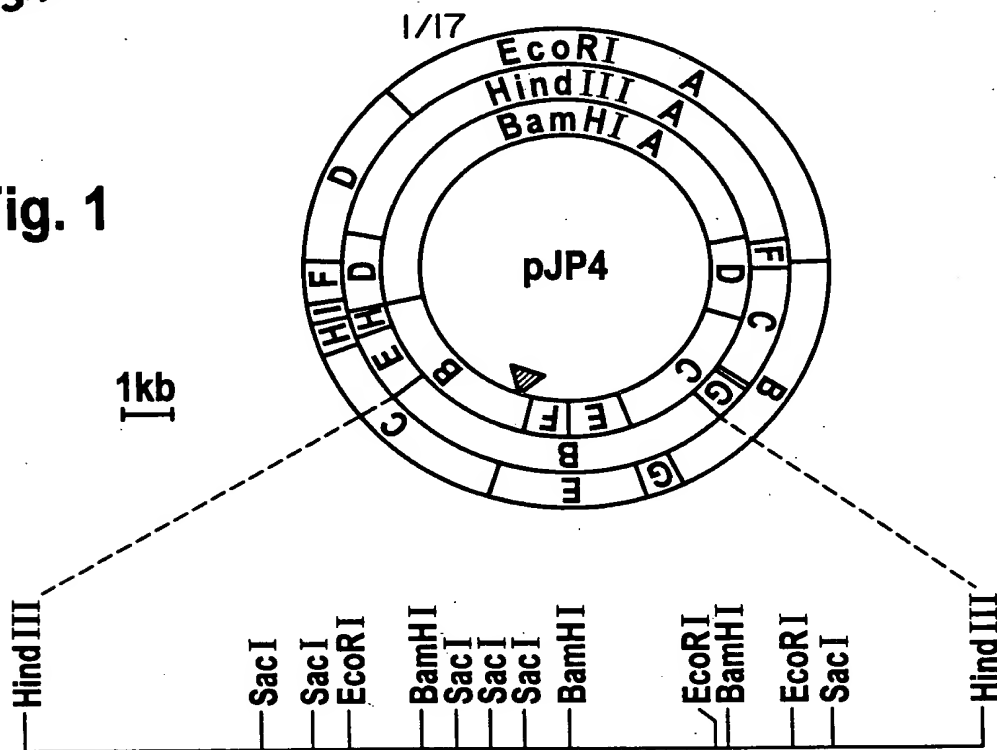
FROMMER LAWRENCE & HAUG LLP
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BZM/ca
Encl.

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Fig. 1



GROWTH ON PHENOXYACETATE:

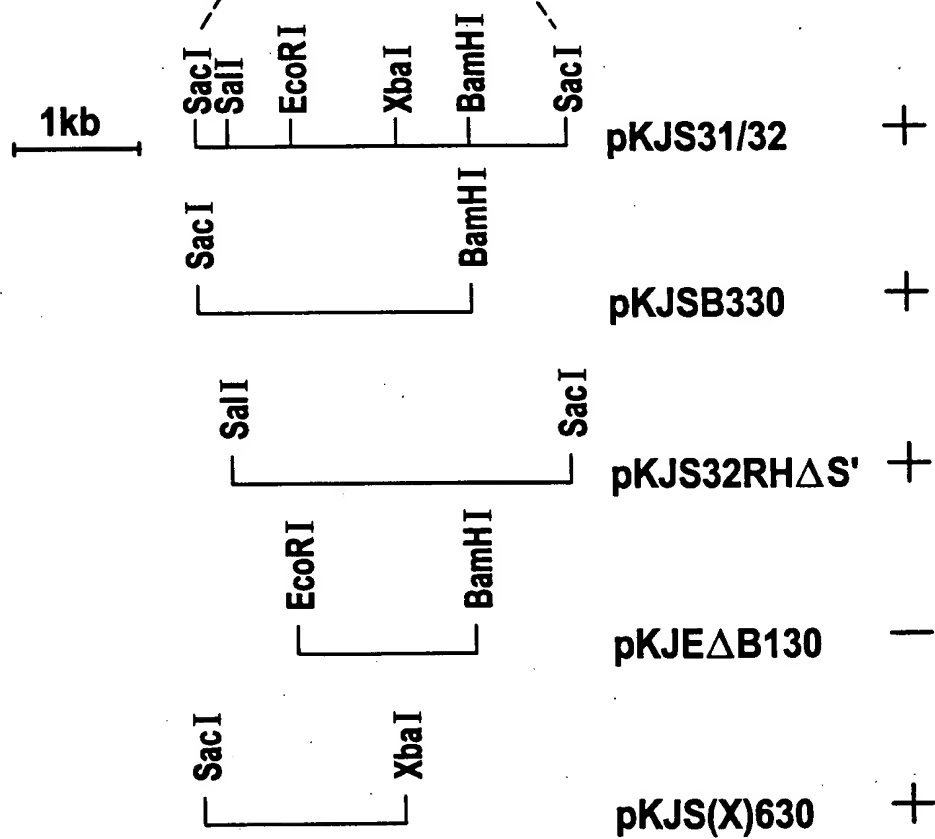


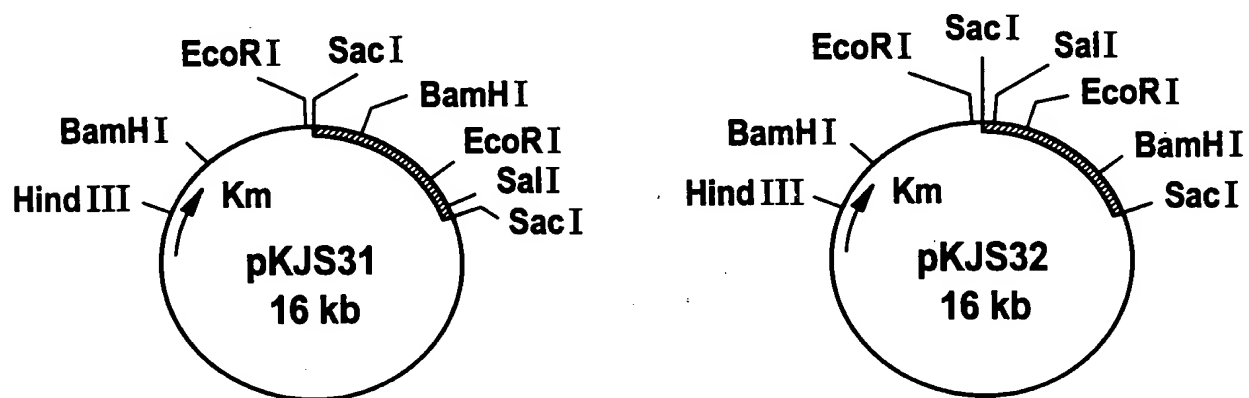
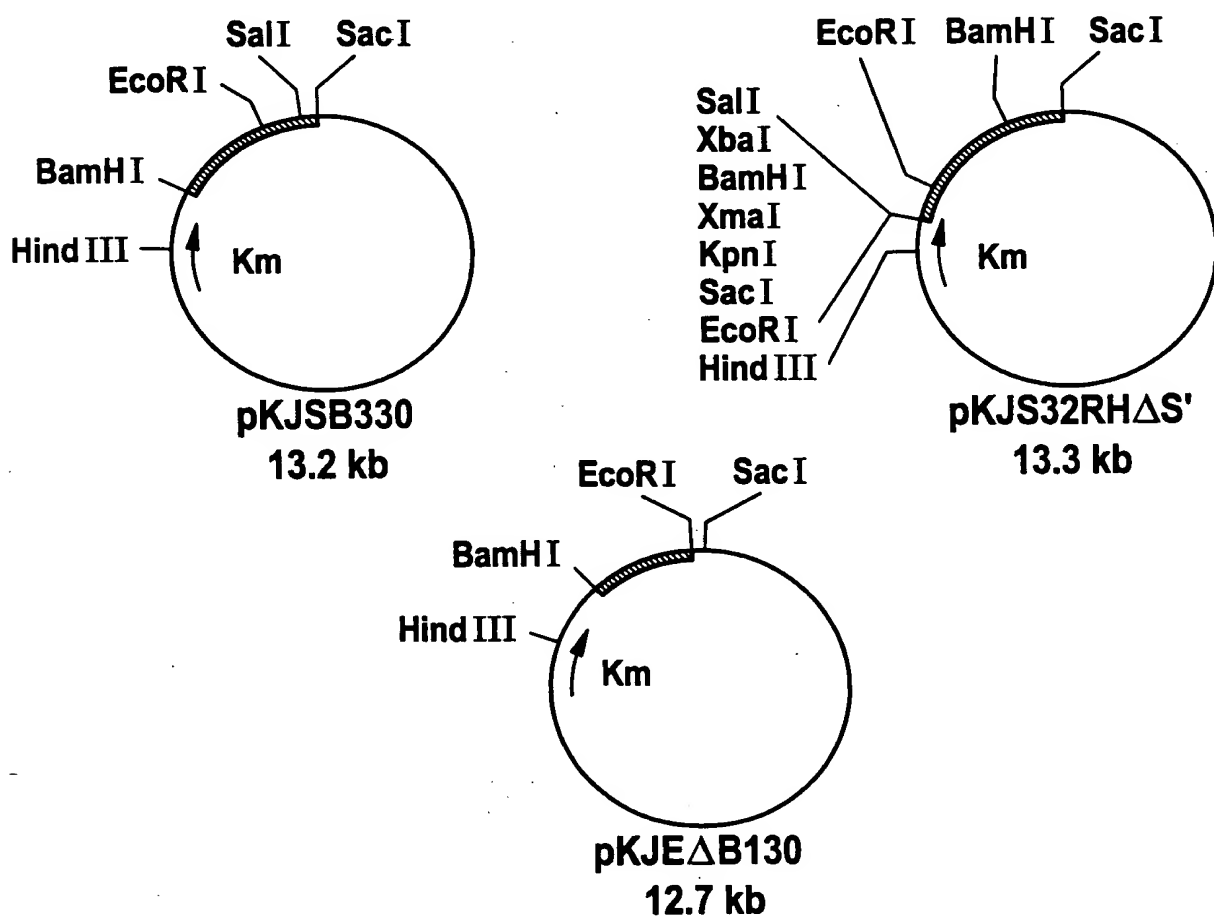
Fig. 2**Fig. 3**

Fig. 4

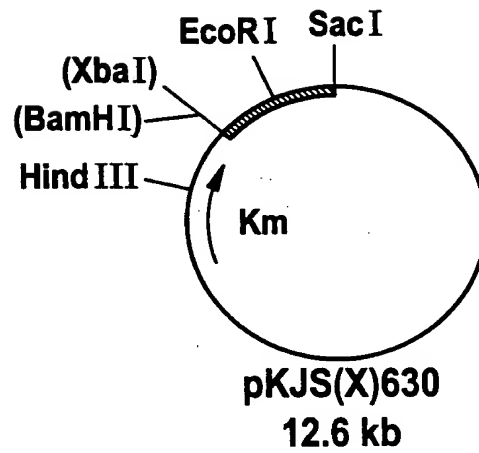


Fig. 5

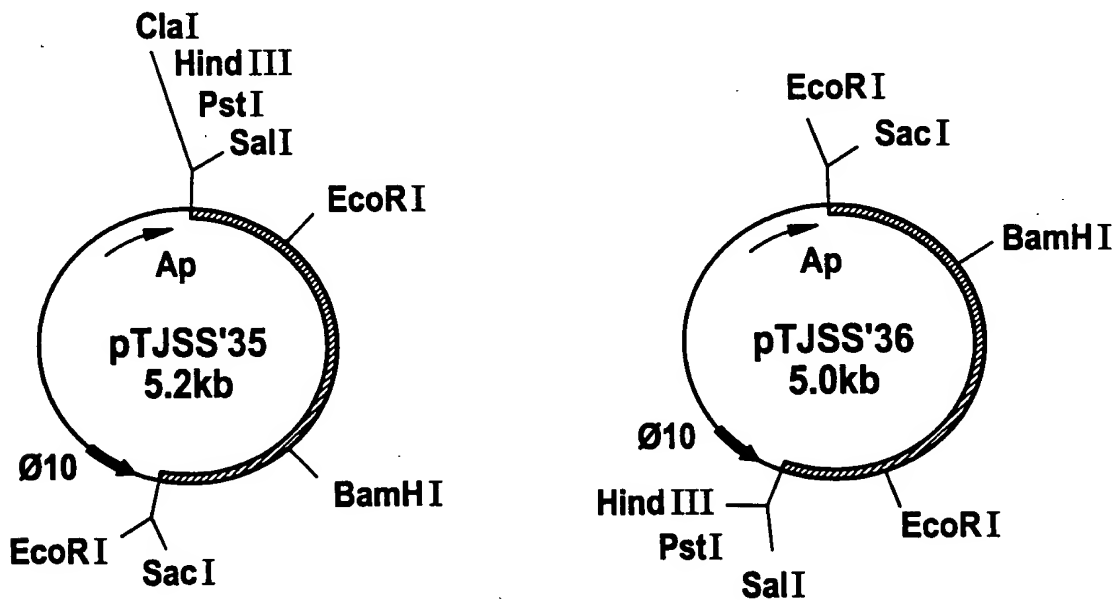


Fig. 6

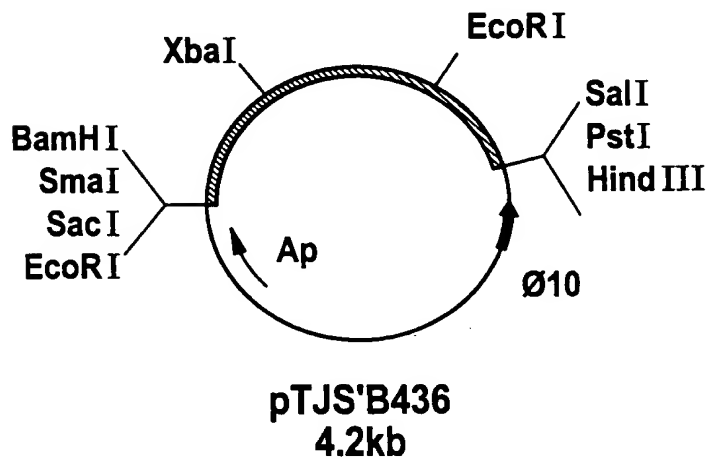
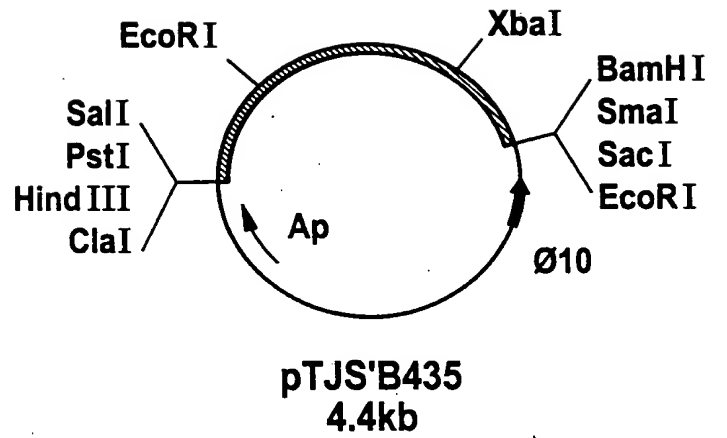
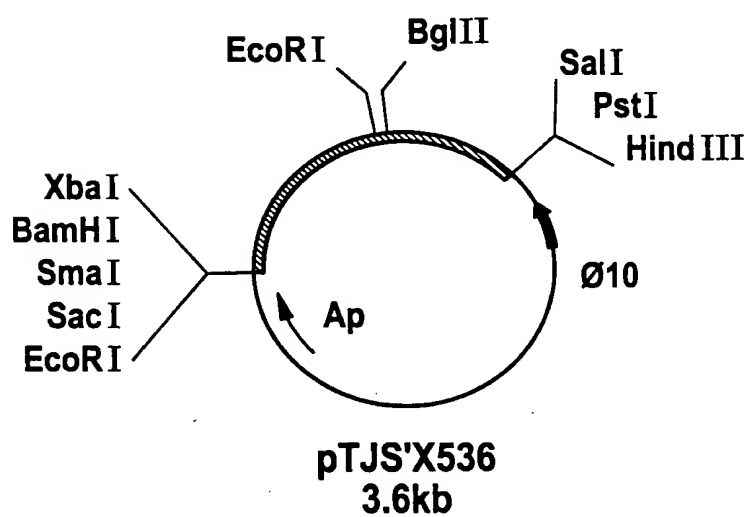
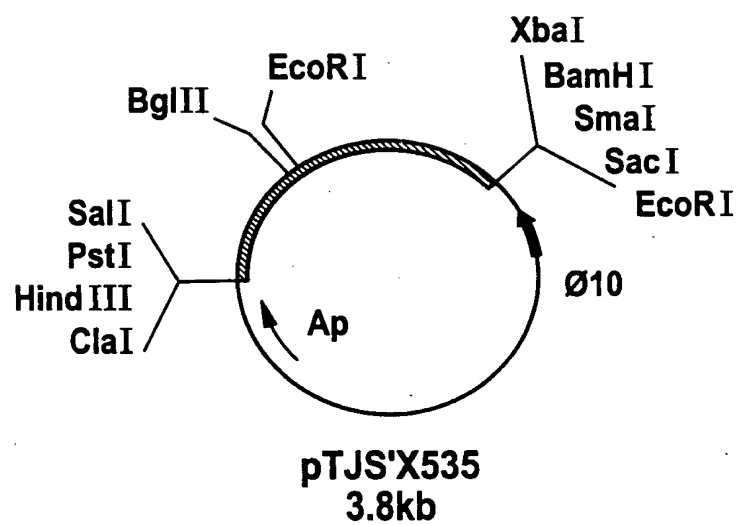
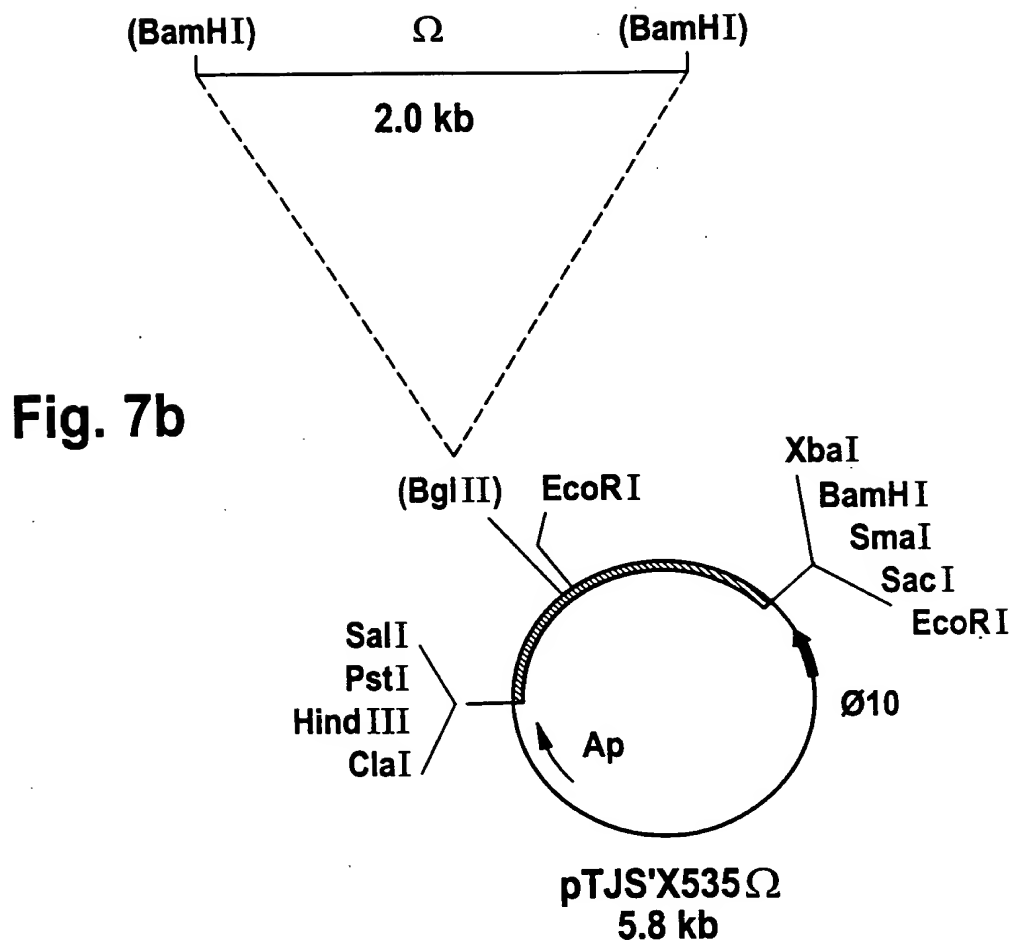


Fig. 7a





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Fig. 8

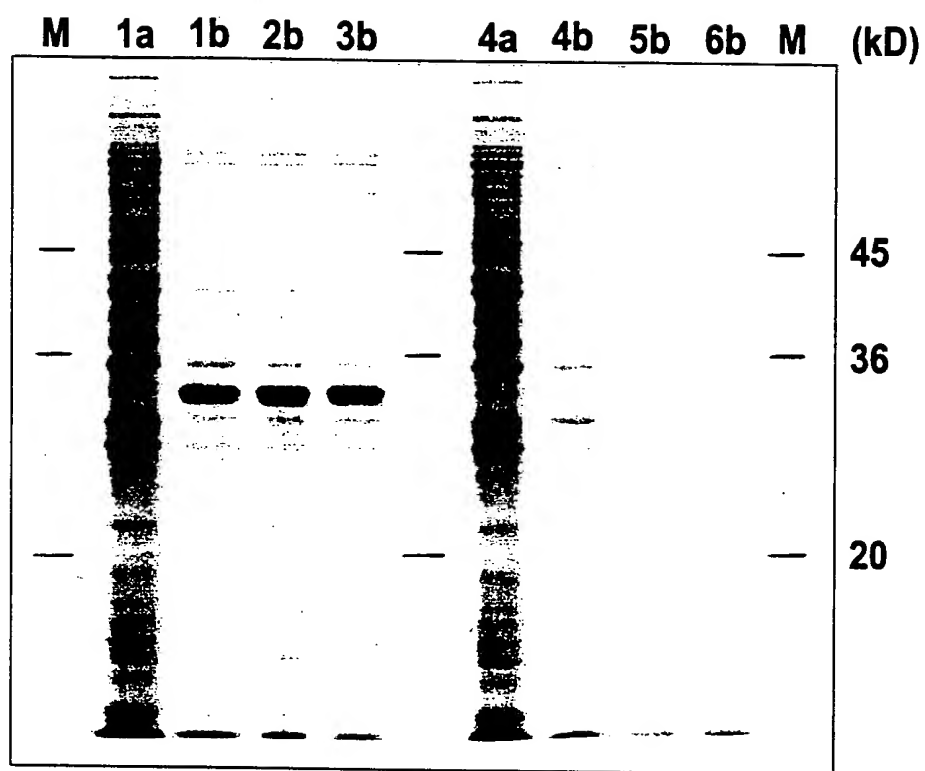


Fig. 9

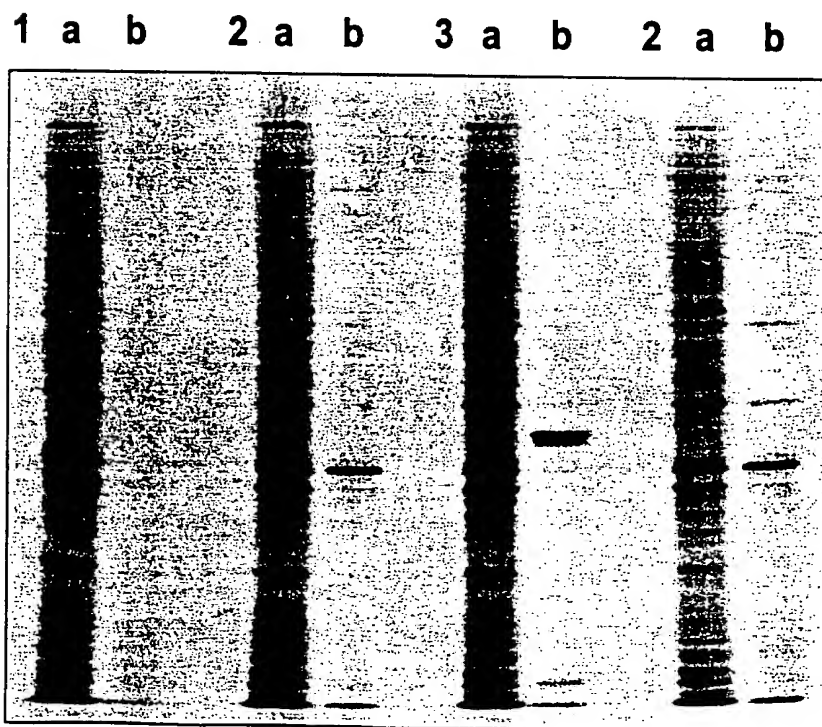


Fig. 10a-1

| | | | | | |
|---|-----|-----|-----|-----|-----|
| 10 | 20 | 30 | 40 | 50 | 60 |
| GGATCCTGTCTCAGCTGGCGCGCAATGCTCGAACCCGCTGCGATATACAGCCGTTTCGTAG | | | | | |
| 70 | 80 | 90 | 100 | 110 | 120 |
| TGCAGGTGCTCCACCGTGATTCCAGGCTCCTGGGGTAGAAGCGGCCGACACCGAGATGG | | | | | |
| 130 | 140 | 150 | 160 | 170 | 180 |
| ATGGTGCCGGCACGCAGGGCCCTCGATCTGCCGCACCTTGGGCATCAGGGCCAGAGACAGC | | | | | |
| 190 | 200 | 210 | 220 | 230 | 240 |
| GTCGCCCCGGGACCGCCTGCGTGAACGCATGGAGCAATGCCGGGACGGTCTGGTAGATC | | | | | |
| 250 | 260 | 270 | 280 | 290 | 300 |
| GCCGTGCCGAGGTAGCCGATATCGAGTTGGCCGATCTCGCCCCGGCTGGCGCGGGGAC | | | | | |
| 310 | 320 | 330 | 340 | 350 | 360 |
| CGGTCCACGGAAGTCCGACCCAGTTCGAGCATGCGCCGTGCATCTTCGAGAAACGCGGCC | | | | | |
| 370 | 380 | 390 | 400 | 410 | 420 |
| GCGGCGGGCGTGAGCTGCACGCCGCGCGCTGCGCTCGAACAACACGCCCCAGATGC | | | | | |
| 430 | 440 | 450 | 460 | 470 | 480 |
| TGTTTCGAGCGGTGAATCTGTGCGGTGACCGGGGCTGGGAAATATGCAGCCGCCCGCGG | | | | | |
| 490 | 500 | 510 | 520 | 530 | 540 |
| GCGGCACCGACGTTGCCCTCCTCCCGGCAGCAACGAAATAGCGAAGCTGTGAAACTCC | | | | | |

Fig.10a-2

| | | | | | |
|---|-----|-----|-----|-----|-----|
| 550 | 560 | 570 | 580 | 590 | 600 |
| ATTCTTCACTCCTGGTGGCTGGCTCCGGCTGCCGGAGAGCCATACCGATCCCGTATCGCT | | | | | |
| 610 | 620 | 630 | 640 | 650 | 660 |
| CGCGCTGATGGAAGGTATTAGACCATATGGCCCGGCATTTCTAGACTACCGCATGATAA | | | | | |
| 670 | 680 | 690 | 700 | 710 | 720 |
| AACTCGGCTGCTCTCTCGTCTGCTGGAACATCTTCAGGCCGCGCTGAGCCGCTTTTGTGAA | | | | | |
| 730 | 740 | 750 | 760 | 770 | 780 |
| ACAGTCTCTTAGAAAAGGAGCAGCAAAAAGTGAGCGTCTGTCGCAAAATCCCCCTTCATCCTCTT | | | | | |
| 790 | 800 | 810 | 820 | 830 | 840 |
| TTCGCCGCAGGGGTCGAAGACATCGACCTTCGAGAGGCCCTTGGGTTTCGACCGAGGTCCGA | | | | | |
| 850 | 860 | 870 | 880 | 890 | 900 |
| GAGATCGAACGGCTAATGGACGAGAAGTCGGTGCTGGTGTTCCGGGGGCGACGCCCTGAGT | | | | | |

Fig. 10a-3

| | | | | | |
|---|------|------|------|------|------|
| 910 | 920 | 930 | 940 | 950 | 960 |
| CAGGATCAGCAGATCGCCTTCGCGGCAATTTCGGGCCACTCGAAGGCGGTTTCATCAAG | | | | | |
| 970 | 980 | 990 | 1000 | 1010 | 1020 |
| GTCAATCAAGACCTTCGAGATTCAAGTACGCGGAGTTGGCGGACATCTCGAAGTCAGT | | | | | |
| 1030 | 1040 | 1050 | 1060 | 1070 | 1080 |
| CTCGACGGCAAGGTCGCGCAACGCGATGCGCGGAGGTGTCGGGAACCTTCGCGAACCAG | | | | | |
| 1090 | 1100 | 1110 | 1120 | 1130 | 1140 |
| CTCTG6CACAGCGACAGCTCCTTTTCAGCAACCTGCTGCCCGCTACTCGATGCTCTCCGCG | | | | | |
| 1150 | 1160 | 1170 | 1180 | 1190 | 1200 |
| GTGGTGGTTCCGCCGTCGGGGCGGACACCGAGTTCTGCGACATGCGTGGGCATACGAC | | | | | |
| 1210 | 1220 | 1230 | 1240 | 1250 | 1260 |
| GGGCTGCCCTCGGGACCTCCAATCCGAGTTGGAAGGGCTGCGTGCCGAGCACTACGCACTG | | | | | |

Fig. 10b-1

| | | | | | |
|---|------|------|------|------|------|
| 1270 | 1280 | 1290 | 1300 | 1310 | 1320 |
| AACTCCCGCTTCCTGCTCGGGACACCGACTATTTCGGAAGCGCAACGCAATGCCATGCCG | | | | | |
| 1330 | 1340 | 1350 | 1360 | 1370 | 1380 |
| CCGGTCAACTGGCCGCTGGTTCGAACCCACGCCGGCTCCGGGGCGCAAGTTTCTCTTCATC | | | | | |
| 1390 | 1400 | 1410 | 1420 | 1430 | 1440 |
| GGCGGCACGCGAGCCACGTCGAAGGCCTTCCGGTGGCCGAAGGCCGGATGCTGCTTGCG | | | | | |
| 1450 | 1460 | 1470 | 1480 | 1490 | 1500 |
| GAGCTTCTCGAGCACGCGACACAGCGGGAATTTCGTGTACCGGCATCGCTGGAACGTGGGA | | | | | |
| 1510 | 1520 | 1530 | 1540 | 1550 | 1560 |
| GATCTCGTGATGTGGGACAACCGCTGCGTTCTTCACCGGACGACGACGACATCTCG | | | | | |
| 1570 | 1580 | 1590 | 1600 | 1610 | 1620 |
| GCCAGGCGTGAGCTGCGCCGGCGACCAACCCTGGACGATGCCGTCGTC TAGCGCACGCCA | | | | | |
| 1630 | 1640 | 1650 | 1660 | 1670 | 1680 |
| TGGCGCACGCCCTTTTCGCGAAGGCCCCCAAGATGTACGCAACCCCTGATCAGCGGCAGC | | | | | |

Fig.10b-2

1690 1700 1710 1720 1730 1740
CGTAGCCTGGACGGCGACACCTTGGCGCAGCGGTCCTTCGAGCGGCGGCGCCTGGCG

1750 1760 1770 1780 1790 1800
GCATGGGGATTGAGGCCCGGTGATGTCGTGCCCATCCTCATGCGCAATGACTTTCGGGTG

1810 1820 1830 1840 1850 1860
CTCGAAATGACGCTGGCCGCGAACCGCGCGCATCGTTGCGGTGCCCTTTGAACTGGCAT

1870 1880 1890 1900 1910 1920
GCGAACCGGACGAGATCGCCCTTCATCCTCGAGGACTGCAAGCGCGTGTGCTCGTCGCG

1930 1940 1950 1960 1970 1980
CACACCGATCTGCTCAAGGGCGTTGCATCCGCGGTGCCCGAGGCCCTGCAAGGTGCTGGAA

1990 2000 2010 2020 2030 2040
GCCGCGTCGCCGCCGAGATCCGGCAGGCCCTATCGGCTGTCCGATGCGTGTGCACGGCG

2050
AACCCGGGCACGGTCGAC

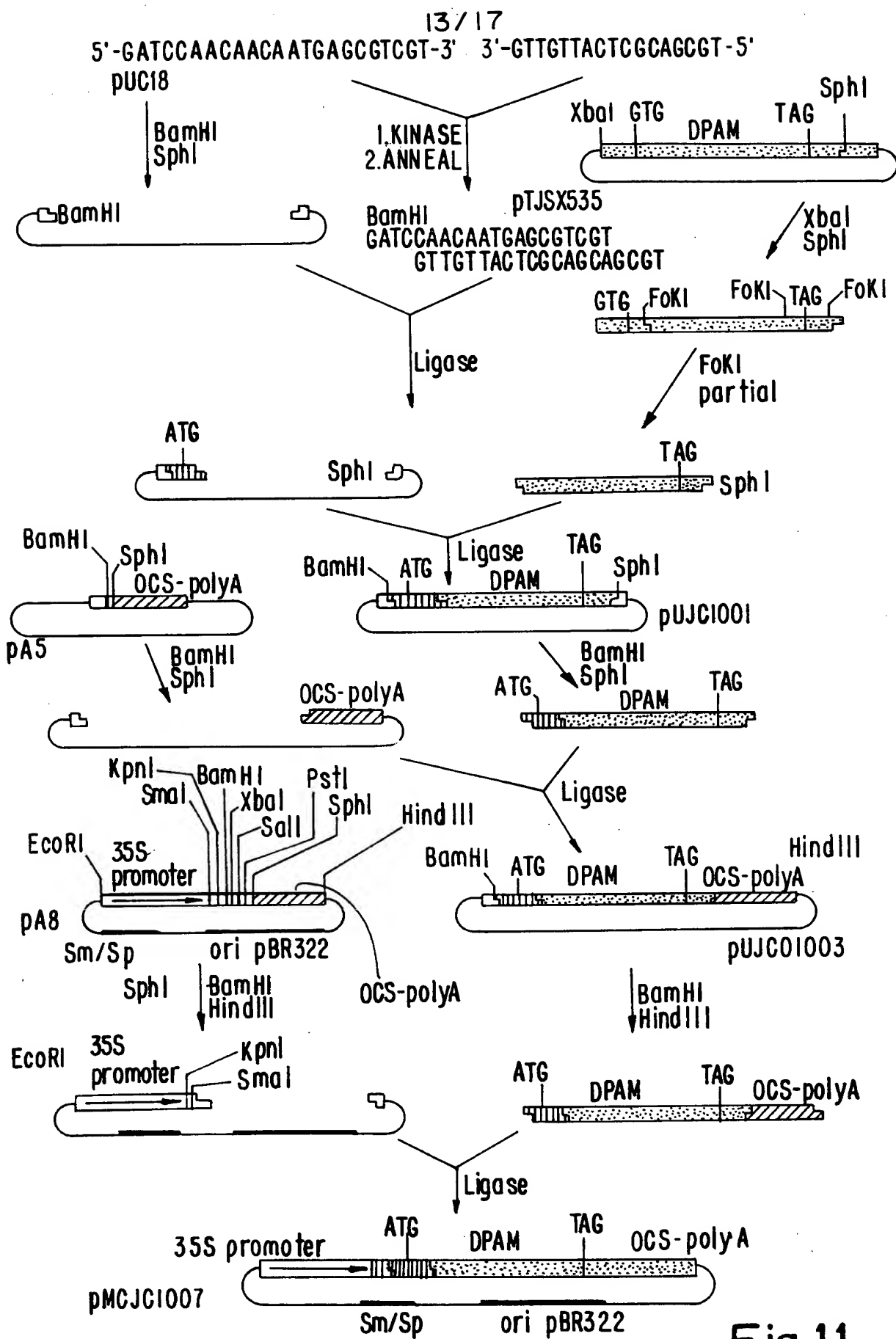


Fig.11

Fig. 12a

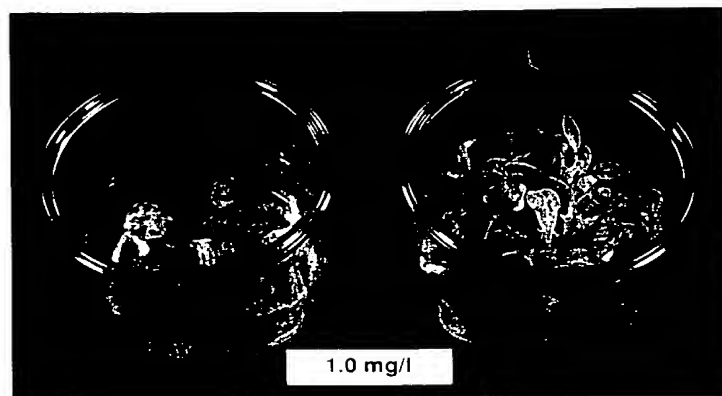
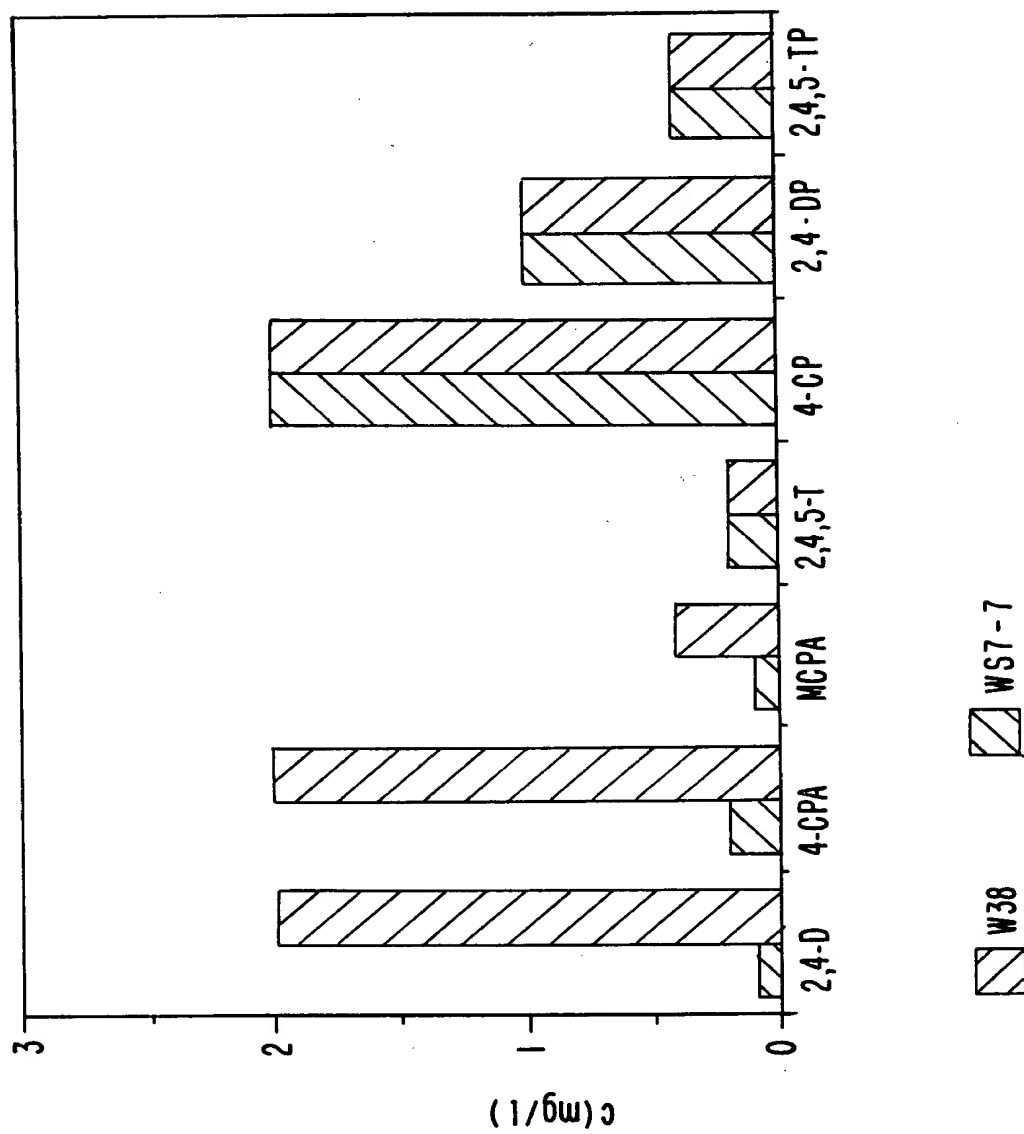


Fig. 12b

Fig.13



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Fig. 14a

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Fig. 14b